CLAIMS

What is claimed is

1 An electronic equipment comprising at least one light source, in which light of the light source is guided and emitted from an operation member having translucent properties via an optical waveguide,

wherein a phosphor emitting visible light by being excited by the light from the light source is contained in a path through which the light of the light source is guided.

2. The electronic equipment according to claim 1, wherein the operation member is constituted by a plurality of keytops.

3. The electronic equipment according to claim 2, wherein the phosphor is contained in a vicinity of the light source.

4. The electronic equipment according to claim 3, wherein the phosphor is constituted by a plurality of types of phosphors that emit light with different colors each other.

5. The electronic equipment according to claim 2, wherein the phosphor is contained in the plurality of keytops.

6. The electronic equipment according to claim 5, wherein the phosphor is constituted by a plurality of types of phosphors that emit light with different colors each other.

7. The electronic equipment according to claim 6, wherein the plurality types of phosphors are arranged such that patterns, designs, letters, symbols or an arbitrary combination thereof can be recognized with their emitted light with the different colors.

8. The electronic equipment according to claim 6, wherein either one or at least two of the plurality of types of phosphors are contained in each of the plurality of keytops.

9. The electronic equipment according to any one of claims 1 to 8, wherein the light source is a LED.

10. The electronic equipment according to claim 9, wherein the electronic equipment is a mobile phone.

11. The electronic equipment according to any one of claims 2 to 8, wherein the plurality of keytops and the optical waveguide are integrated into one piece, and the integrated piece including the plurality of keytops and the optical waveguide is configured to be removable with respect to a main body of the electronic equipment.

12. The electronic equipment according to claim 11, wherein the light source is a LED.

13. The electronic equipment according to claim 12, wherein the electronic equipment is a mobile phone.

14. A backlight structure in which at least one light source is provided in a printed substrate that is inside a casing having a waveguide plate, and light of the light source is transmitted through the waveguide plate and emitted,

wherein a wavelength-converting phosphor that emits light by being excited by the light of the light source is provided in a waveguide path leading to a point where the light of the light source is transmitted through the waveguide plate and is emitted out, except the light source and the printed substrate.

15. The backlight structure according to claim 14, wherein the wavelength-converting phosphor is contained in the waveguide plate.

16. The backlight structure according to claim 14, wherein the wavelength-converting phosphor is applied to the waveguide plate.

17. The backlight structure according to claim 14, wherein at least one color tone changing sheet containing the wavelength-converting phosphor is provided in the waveguide path.

18. The backlight structure according to any one of claims 14 to 17, wherein the emission wavelength of the light source is in a range from 400 to 430 nm.

19. The backlight structure according to claim 18, wherein the light source is a LED.

20. An electronic equipment in which the backlight structure according to claim 19 is used,

wherein at least a keypad serves as the waveguide plate, and

a key backlight serves as the light source.

21. The electronic equipment according to claim 20, which is an electronic equipment configured so as to be foldable at a hinge portion, wherein

in addition to the keypad, the hinge portion serves as the waveguide plate, and

light of the key backlight is guided to the hinge portion.

22. The electronic equipment according to claim 20, which is an electronic equipment comprising an antenna portion, wherein

in addition to the keypad, the antenna portion serves as the waveguide plate, and

light of the key backlight is guided to the antenna portion.

23. The electronic equipment according to any one of claims 20 to 22, wherein the electronic equipment is a mobile phone.

24. An electronic equipment, in which light of a backlight is transmitted through an operation member and is emitted, wherein

a wavelength-converting phosphor paint that emits light by being excited by the light of the backlight is provided.

25. The electronic equipment according to claim 24, wherein the emission wavelength of the backlight is in a range from 400 to 430 nm.

26. The electronic equipment according to claim 25, wherein the backlight is a LED.

27. The electronic equipment according to claim 26, wherein the operation member is a keypad.

28. The electronic equipment according to any one of claims 24 to 27, wherein the electronic equipment is a mobile phone.

29. A keypad for an electronic equipment, which is configured so as to be used in an electronic equipment including at least one backlight, wherein a wavelength-converting phosphor is mixed.

30. The keypad for an electronic equipment according to claim 29, wherein the emission wavelength of the backlight is in a range from 400 to 430 nm.

31. The keypad for an electronic equipment according to claim 30, wherein the backlight is a LED.